

DevConnect Program

Application Notes for Aiphone IX Series 2 Video Door Station (IX-DVT) with Avaya IP Office Server Edition -Issue 1.0

Abstract

These Application Notes describe the configuration steps required to integrate Aiphone IX Series 2 Video Door Station (IX-DVT) Version 7.00 with Avaya IP Office Server Edition 11.1 and Avaya IP Office 500V2 Expansion System 11.1. The Aiphone IX-DVT Video Door Station, which is part of the Aiphone IX Series 2 Video Door Stations, was used for the compliance test. Aiphone IX-DVT Video Door Station is a surface mount, weather resistant video door station. It has one dry contact that can be used to release doors when activated by a phone. Aiphone IX-DVT Video Door Station registers with Avaya IP Office as a SIP endpoint.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as the observations noted in **Section 2.2**, to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the Avaya DevConnect Program.

1. Introduction

These Application Notes describe the configuration steps required to integrate Aiphone IX Series 2 Video Door Station (IX-DVT) Version 7.00 with Avaya IP Office Server Edition 11.1 and Avaya IP Office 500V2 Expansion System 11.1. The Aiphone IX-DVT Video Door Station, which is part of the Aiphone IX Series 2 Video Door Stations, was used for the compliance test. Aiphone IX-DVT Video Door Station is a surface mount, weather resistant video door station. It has one dry contact that can be used to release doors when activated by a phone. Aiphone IX-DVT Video Door Station (IX-DVT) registers with Avaya IP Office as a SIP endpoint.

2. General Test Approach and Test Results

The interoperability compliance test included feature and serviceability testing. The feature testing focused on establishing audio and video calls between Aiphone IX-DVT Video Door Station, Avaya SIP and H.323 telephones, Avaya Workplace Client for Windows, Avaya VantageTM K175, and the PSTN, and exercising basic telephony features, such as hold/resume, mute/unmute, transfer, conference, call forwarding, and call coverage from an Avaya IP endpoint. Additional telephony features, such as call forward and call coverage, were also verified.

The serviceability testing focused on verifying that the Aiphone IX-DVT Video Door Station comes back into service after re-connecting the Ethernet cable.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in this DevConnect Application Note included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with this Application Note, the interface between Avaya systems and Aiphone IX-DVT Video Door Station did not include use of any specific encryption features as requested by Aiphone.

2.1. Interoperability Compliance Testing

Interoperability compliance testing covered the following features and functionality:

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- SIP registration of IX-DVT with IP Office Server Edition and IP Office 500V2 Expansion System.
- Audio calls between IX-DVT and Avaya SIP and H.323 deskphones with Direct IP Media (Shuffling) enabled and disabled.
- Audio and video calls between IX-DVT, Workplace, and Vantage K175 with Direct IP Media (Shuffling) enabled and disabled. One-way video from IX-DVT to Workplace and Vantage K175 was verified.
- Audio calls between IX-DVT and the PSTN.
- G.711 codec support.
- UDP transport protocol.
- IX-DVT placing, answering, and terminating calls.
- Basic telephony features, including hold/resume, mute/unmute, transfer, and 3-way conference, initiated from an Avaya IP endpoint.
- Proper system recovery after re-establishing IP connectivity to IX-DVT.

2.2. Test Results

All test cases executed passed successfully.

2.3. Support

For technical support of Aiphone IX Series 2 Video Door Stations, contact Aiphone Technical Support via phone or website.

- Phone: +1 (800) 692-0200
- Web: <u>https://www.aiphone.com/support/technical-support</u>

3. Reference Configuration

Figure 1 illustrates a sample configuration with an Avaya SIP-based network. Aiphone IX-DVT Video Door Station registered to either IP Office Server Edition or IP Office 500 V2 Expansion System (not simultaneously).

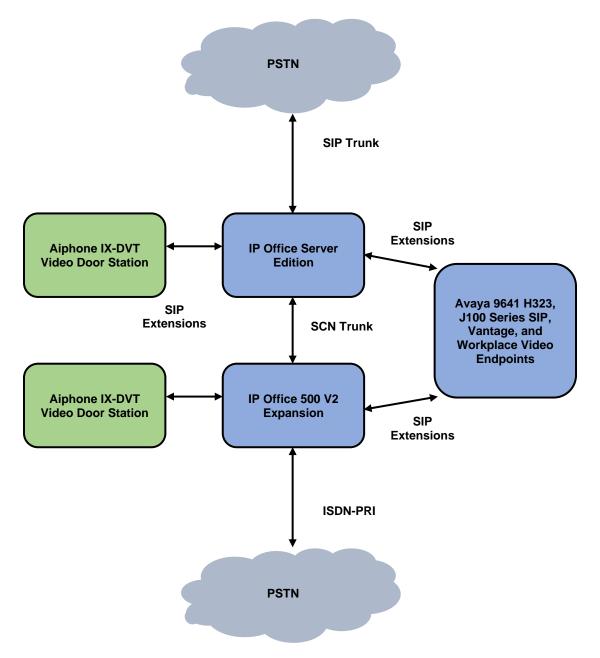


Figure 1: Avaya SIP Telephony Network with Aiphone IX-DVT Video Door Station

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4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipment/Software	Release/Version
Avaya IP Office Server Edition	11.1.2.4.0 build 18 (FP2 SP4)
Avaya IP Office 500V2 Expansion System	11.1.2.4.0 build 18 (FP2 SP4)
Avaya 96x1 Series IP Deskphones	6.8.5.2.3 (H.323)
Avaya J100 Series IP Phones	4.0.10.3.2 (SIP)
Avaya K175 Vantage Device	3.1.1.2 (bld version 0012)
Avaya Workplace	3.32.0.75
Aiphone IX-DVT Video Door Station	7.00

Note: Compliance Testing is applicable when the tested solution is deployed with a standalone IP Office 500 V2 and when deployed with IP Office Server Edition in all configurations.

5. Configure Avaya IP Office Server Edition

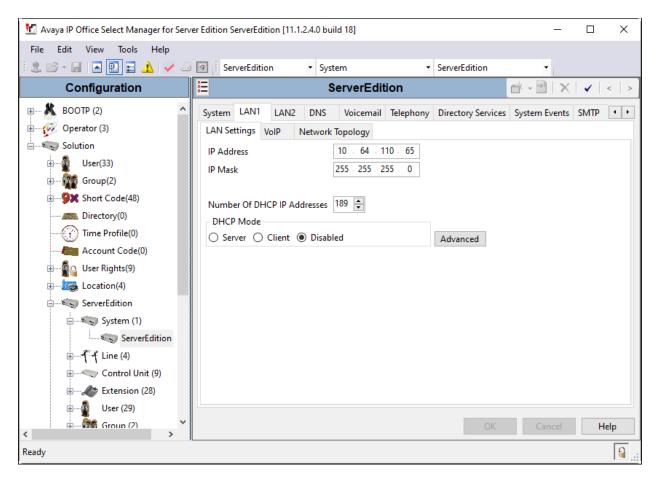
This section provides the procedures for configuring Avaya IP Office Server Edition. The procedures include the following areas:

- Obtain LAN IP Address
- Administer SIP Registrar
- Administer SIP Extension for IX-DVT
- Administer SIP User for IX-DVT

Note: This section covers the configuration of Avaya IP Office Server Edition, but the configuration is the same for Avaya IP Office 500 V2 Expansion System.

5.1. Obtain LAN IP Address

From a PC running the IP Office Manager application, on the configuration tree in the left pane, select **System** to display the **System** screen for the IP Office Server Edition in the right pane. Select the **LAN1** tab, followed by the **LAN Settings** sub-tab in the right pane. Make a note of the **IP Address**, which will be used later to configure IX-DVT.



5.2. Administer SIP Registrar

Select the **VoIP** sub-tab. Ensure that **SIP Registrar Enable** is checked and enter a valid **SIP Domain Name**. In the compliance testing, the **SIP Domain Name** field was set to *avaya.com*. UDP transport protocol was enabled for the **Layer 4 Protocol**, which was used by IX-DVT.

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Directory(0) Time Profile(0) Account Code(0) User Rights(9) Location(4)	SIP Trunks Enable SIP Registrar Enable Auto-create Extension/User SIP Domain Name	SIP Remote Extension Enable	Allowed SIP User Ager	nts Allow All		~	
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5.3. Administer SIP Extension for IX-DVT

From the configuration tree in the left pane, right-click on **Extension** and select New \rightarrow SIP from the pop-up list to add a new SIP extension. Enter the desired extension for the **Base Extension** field as shown below. In this example, IX-DVT was assigned extension 72007. This is the extension that IX-DVT will use to register with IP Office Server Edition.

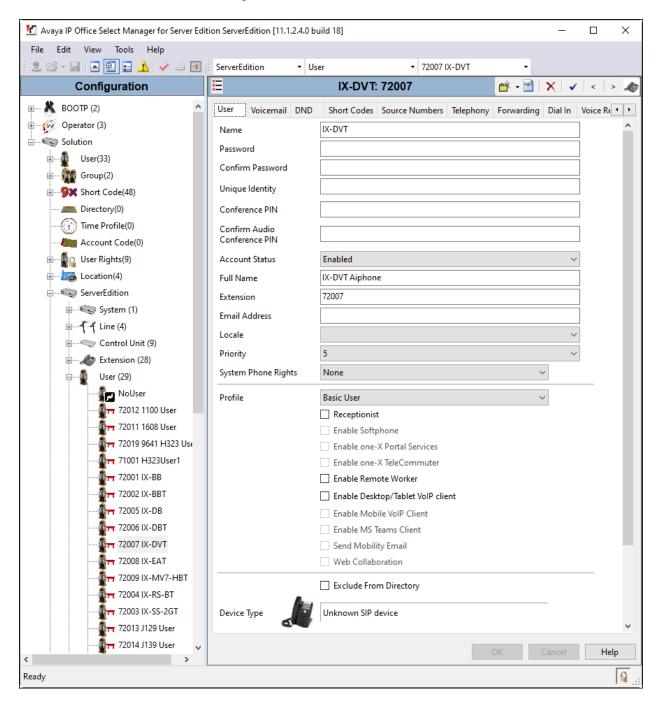
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⊞<⊂> Control Unit (9)	Extension ID	11223	^		
Extension (28)	Base Extension	72007			
	Phone Password		\odot		
11202 70003	Confirm Phone Password				
	Caller Display Type	On	~		
	Reset Volume After Calls				
	Device Type	Unknown SIP device			
11205 70009	Location	Automatic	~		
11206 70010	Fallback As Remote Worker	Auto			
	Module	0			
	Port	0			
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11220 72004	Disable Speakerphone				
11221 72005					
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11223 72007			OK Cancel Help		
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Select the **VoIP** tab and retain the default values. During the compliance test, IX-DVT was tested with *G.711 ULaw* codec. Enable **Allow Direct Media Path** so that audio/RTP flows directly between two SIP endpoints without using media resources in Avaya IP Office Server Edition. **Media Security** was *disabled* for IX-DVT.

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11202 70003		G.729(a) OK CS-ACELP		Allow Direct Media Path
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11216 70008			<u></u>	
11205 70009			>>>	
11206 70010				
11226 71001	Reserve License	None		~
* 11217 72001 * 11218 72002	Fax Transport Support	None		~
11218 72002				
11220 72004	DTMF Support	RFC2833/RFC4733		~
11220 72004	3rd Party Auto Answer	None	~	
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5.4. Administer SIP User for IX-DVT

From the configuration tree in the left pane, right-click on **User** and select **New** from the pop-up list. Enter desired values for the **Name** and **Full Name** fields. For the **Extension** field, enter the SIP extension from **Section 5.3** (e.g., 72007).



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User Rights(9)	User Voicemail DND	Short Codes	Source Numbers	Telephony	Forwarding	Dial In	Voice Red	. • •
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Select the **Voicemail** tab and disable voicemail for IX-DVT.

Select the **Telephony** tab followed by the **Call Settings** sub-tab. Note the settings below for the user.

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Select the **Supervisor Settings** sub-tab and enter a desired **Login Code**. The **Login Code** is the password that will be used by IX-DVT to register with IP Office Server Edition.

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€ System (1)	Login Code	•••••	Force	Login	^
	Confirm Login Code	•••••			
Extension (28)	Login Idle Period (sec)		Force	Account Code	
user (29)	Monitor Group	<none></none>	V Force	Authorization Code	
NoUser	Coverage Group	<none></none>	✓ Incom	ning Call Bar	
72012 1100 User	Status on No-Answer	Logged On (No change)	∼ 🗌 Outgo	oing Call Bar	
72011 1608 User			🗌 Inhibi	it Off-Switch Forward	l/Transfer
72019 9641 H323 Use	Privacy Override Group	<none></none>	∼ 🗌 Can Ir	ntrude	
71001 H323User1	-Reset Longest Idle Time	e	🗹 Canno	ot Be Intruded	
72001 IX-BB	All Calls			race Calls	
	O External Incoming		Deny	Auto Intercom Calls	
72005 IX-DB					
72006 IX-DBT					
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72008 IX-EXT					
< > >			Ok	K Cancel	Help
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6. Configure Aiphone IX-DVT Video Door Station

This section provides the procedure for configuring IX-DVT to provide SIP connectivity to IP Office. Configuration of IX-DVT is performed via Aiphone IX System web interface. The following configuration is covered:

- Log into Aiphone IX System Web Interface
- Administer Station Information
- Administer SIP Parameters
- Administer Video SIP Channel
- Administer Audio Settings
- Administer Call Settings

6.1. Log into Aiphone IX System Web Interface

Access the Aiphone IX System Web Interface by using the URL <u>https://<ip-</u> <u>address>/webset.cgi?login</u> in an Internet browser, where <*ip-address>* is the IX-DVT IP address. Select language (not shown) and log in using the appropriate credentials.

AIPHONE IX System					
Enter ID and password ID: Password: Login					
Copyright 2012 AIPHONE Co.,Ltd. All rights reserv	ed.				

6.2. Administer Station Information

Navigate to **Station Information** \rightarrow **Identification** and set the **Number** to the IX-DVT SIP extension (e.g., 72007). Input an appropriate **Name**.

AIPHONE IX Sy	stem Setting		update
Category: Video Stations <u>Station Information</u>	Station Type: IX-DVT	Station Information	
<u>Identification</u> <u>ID and Password</u> <u>Language</u>	•Identification—		
<u>Time</u> Expanded System	Number • Name	72007 [X-DVT	3-5 digits 1-24 alphanumeric characters(*1)
<u>Network Settings</u> IP Address	Location	(*1)Certain c	1-24 alphanumeric characters(*1) characters may not be displayed correctly on IX-MV,
DNS			

6.3. Administer SIP Parameters

Navigate to **Network Settings** \rightarrow **SIP** from the left pane and configure the following parameters:

- **SIP Signaling Port:** Set to 5060.
 - **User Agent:** Enter desired value (e.g., *IX-DVT*).
 - **ID:** Set to SIP extension (e.g., 72007) from **Section 5.3**.
 - Enter SIP password from Section 5.4.
 - **IPv4 Address:** Set to signaling IP address of IP Office (e.g., 10.64.110.65).

Set to 5060.

• Port:

Password:

•

•

•

•

Click **Update** to save changes.

AIPHONE IX Syst	em Setting Station Type: IX-DVT		a, Opdate
Station Information Identification ID and Password	•SIP	Network Settings	
Language Time Expanded System Network Settings	SIP Connections SIP Signaling Port • User Agent	5060 IX-DVT	1-65535 1-36 alphanumeric characters
IP Address DNS SIP Multicast Address Video	SIP Server	Standard Mode	v
Audio Packet Priority NTP Call Settings	Primary Server ID Password IPv4 Address	72007 10.64.110.65	1-24 alphanumeric characters 1-24 alphanumeric characters 1.0.0.1-223.255.255.4 or hostname(1-64 alph
<u>Station Settings</u> <u>Called Stations (for Door)</u> <u>Call Origination</u>	IPv6 Address Port+	5060	::FF:0-FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFF

6.4. Administer Video SIP Channel

Navigate to **Network Settings** \rightarrow **Video** in the left pane and configure the video settings as shown below.

AIPHONE IX Syst	tem Setting		Dpdate
Category: Video Stations <u>Station Information</u>	Station Type: IX-DVT	Network Settings	
<u>Identification</u> <u>ID and Password</u> <u>Language</u>	•Video		
<u>Time</u> <u>Expanded System</u>	SIP Channel The "SIP Channel" RTP End Port shoul Resolution	ld be greater than 90 digits from the RTP Start Port. ◯320x240(QVGA)	●640x480(VGA)
<u>Network Settings</u> <u>IP Address</u>	Frame Rate [fps] Select Profile	15 🗸	•
<u>DNS</u> <u>SIP</u> <u>Multicast Address</u>	I-picture interval • Bit rate [kbps]	15 1024 🗸	1-100
<u>Video</u> <u>Audio</u> Pachat Principa	RTP Start Port • RTP End Port •	30000 31000	1-65534 1-65535
Packet Priority NTP			

6.5. Administer Audio Settings

Navigate to Network Settings \rightarrow Audio in the left pane and set Audio Codec to select *G.711* (*u-law*).

AIPHONE IX Syste	em Setting Station Type: DX-DVT		⇒ Update				
Station Information	Network Settings						
Identification ID and Password Language Time Expanded System	• Audio The "SIP Channel" RTP End Port should be greater than 21 The "ONVIF Transmit Channel" RTP End Port should be g Changing Audio Codec from G.711(µ-law) / G.711(A-law)	reater than 10 digits from the RT	P Start Port. 1(µ-law) / G.711(A-law) will cause the station to restart after Update is clicked.				
Network Settings IP Address DNS SIP Multicast Address Video	Audio Codec Audio RTP Transmission Interval [msec] RTP Idle Detection Time [sec]+	@G.711(μ-law) 20 ▼ 10	OG.711(A-law) OG.722 This setting is ignored when transmitting to multiple stations (paging, etc.) 10-180 sec				
Audio Packet Priority NTP Call Settings Station Settings Called Stations (for Door)	SIP Channel RTP Start Port + RTP End Port +	20000 1-65534 21000 1-65535					
Call Origination Incoming Call Option Input / Relay Output Settings Option Input	ONVIF Transmit Channel RTP Start Port + RTP End Port +	22000 1-65534 23000 1-65535					
<u>Relay Output</u> <u>Function Settings</u> <u>Paging Settings</u> <u>Email</u>	Audio Buffer Packets Buffered at Audio Start Maximum Packets Buffered	1 V 3 V Maximum Pack	tet Buffer must be larger than Audio Start Buffer.				

6.6. Administer Call Settings

Navigate to **Call Settings** in the left pane and set the **Call Button Function** to *Call, Answer Call, End Communication* in the **Station Information** section.

In the **Called Stations (for Door)** section, add an entry that specifies the number that should be dialed when the call button is pressed. Set the **Station Number** to the called number (e.g., 72015), set the **IPv4 Address** to the signaling IP address of IP Office (e.g., 10.64.110.65), and set **Station Type** to *VoIP Phone*. Only one VoIP phone may be specified.

AIPHONE IX System Setting								
Category: Video Stations Station Information	Station Type: IX-DVT Call Settings							
Identification ID and Password Language Time					 Required Settings 			
Expanded System Network Settings IP Address	•Station Infor							
<u>DNS</u> <u>SIP</u> Multicast Address	Call Button I "Cance	Function [Call, Answer Call, End Call, End Communication" disabled when		~				
<u>Video</u> <u>Audio</u> <u>Packet Priority</u> NTP	•Called Statio	ns (for Door)						
Call Settings Station Settings	Option Inpu	· · ·	×					
<u>Called Stations (for Door)</u> <u>Call Origination</u> <u>Incoming Call</u>	IPv4 m IPv6 m Enter S	Number must be 3-5 digits. (3-32 digits for ist be 1.0.0.1-223.255.255.254 or hostnam ist be ::FF:0-FEFF:FFFF:FFFF:FFFF:FFFF Primary Server IP address for VoIP Phon Trae must be "VoIP Bdress" when address address to address the "VoIP Bdress" when address address address to address the "VoIP Bdress" when address address address address the "VoIP Bdress" address address address address the "VoIP Bdress" address address address address address the "VoIP Bdress" address address address address the "VoIP Bdress" address address address the "VoIP Bdress" address address address address the "VoIP Bdress" address address the "VoIP Bdress" address address address the "VoIP Bdress" address address address the "VoIP Bdress" address address the "VoIP Bdress" address address address the "VoIP Bdress" address address address the "VoIP Bdress" address address address address the "VoIP Bdress" address addr	e(1-64 alphanumeric characters). F:FFFF:FFFFFF or hostname(1-64 alph ne, set only one VoIP Phone per call group.					
Option Input / Relay Output Settings Option Input	Station Type must be "VoIP Phone" when calling via SIP server. U = Unicast, M = Multicast If designating "M", multicast IP addresses must be configured for the station(s).							
Relay Output	#	Station Number	IPv4 Address	IPv6 Address	Station Type			
Function Settings		1 72015	10.64.110.65		VoIP Phone 🗸			
Paging Settings		2			<			
Email		3			~			

7. Verification Steps

This section provides the tests that can be performed to verify proper configuration of IP Office and Aiphone IX-DVT Video Door Station.

1. Verify that IX-DVT has successfully registered with with IP Office. Launch **IP Office System Status** and navigate to **Extensions** → *<SIP Extension>*, where *<SIP Extension>* is the IX-DVT extension. Verify that the **Current State** is *Idle* as shown below.

Alarms (2) Extension Number: 72007 72005 T2006 IP address: 10.64.10.81 72008 Standard Location: None 72009 Registrar: Primary 72015 User-Agent SIP header: IX-DVT 72019 Layer 4 Protocol: UDP I Resources Current User Extension Number: 72007 Voicemail Forwarding: Off	🔝 Avaya IP Office System Status - ServerEdition (10.64.110.65) - IP Office Linux PC 11.1.2.4.0 build 18 — 🛛 🗙						
■ System ■ Alarms (2) ■ Extensions (8) 72006 72006 72006 72007 72008 72009 72019 72019 10 Active Calls 11 P Networking Locations 12 P Networking Do Not Disturb: 00 Not Disturb: 01 Power Registrat: 12 Protections 13 Tranks (4) Active Calls 14 Power Calls 15 Power Registrat: 16 Power Registrat: 17 Power Registrat: 17 Protections 10 Power Calls 12 P Networking Locations 12 P Networking: 12 Or Not Disturb: 13 Powice Features: 14 Power Required: 15 Power Required: 16 Power Manager Type: 17 Divice Features: 17 Power Required: 18 Power Required: 19 Power Required: 10 TWF Required: 10 TWF Required: 10 TWF Required:	AVAYA	VAYA IP Office System Status					
If Alarms (2) Extension Status If Alarms (2) Extension Status If Alarms (2) Extension Number: 72007 IP address: 10.64.10.81 IP address: None Registrar: Primary Totols User-Agent SIP header: IX-DVT Media Stream: RTP Layer 4 Protocol: UDP Current User Extension Number: 72007 Current User Name: IX-DVT Forwarding: Off IV obcemail Forwarding: Off IV obcemail Forwarding: Off IV obcemail Forwarding: Off None SIP Device Features: REFER,UPDATE License Reserved: No Last Date and Time License Allocated:	Help Snapshot LogOff	Exit About					
DTMF Required: No Packet Loss Fraction: Connection Type: Jitter: Codec: Round Trip Delay: Remote Media Address: Call Ref Current State Time in State Calling Number Or Called Number Other Party on Call	Help Snapshot LogOff System Alarms (2) Extensions (8) 72005 72006 72006 72008 72009 72015 72018 72019 Trunks (4) Active Calls Resources Voicemail I IP Networking	Extension Status Extension Number: 72007 IP address: 10.64.10.81 Standard Location: None Registrar: Primary Telephone Type: Unknown SIP Device User-Agent SIP header: IX-DVT Media Stream: RTP Layer 4 Protocol: UDP Current User Extension Number: 72007 Current User Name: IX-DVT Forwarding: Off Do Not Disturb: Off Message Waiting: Off Phone Manager Type: None SIP Device Features: REFER, UPDATE License Reserved: No					
Trace Trace All Pause Ping Call Details Print Save As 3:46:36 PM Online		Packet Loss Fraction: Connection Type: Jitter: Codec: Round Trip Delay: Remote Media Address: Call Ref Current State Time in State Calling Number Idle 00:29:51 Other Party on Call Trace Trace All Pause Ping Call Details Print					

2. Establish inbound and outbound video calls to IX-DVT with Avaya Workplace and/or Vantage endpoints and verify two-way audio and one-way video.

8. Conclusion

These Application Notes describe the administration steps required to integrate Aiphone IX Series 2 Video Door Stations (IX-DVT) with Avaya IP Office Server Edition. The Aiphone IX-DVT Video Door Station successfully registered with IP Office as a SIP endpoint and audio and video calls were verified. All test cases executed passed with no observations noted.

9. References

This section references the Avaya and Aiphone documentation relevant to these Application Notes.

Avaya product documentation is available at https://support.avaya.com.

[1] *Administering Avaya IP Office using Manager*, Release 11.1, available at <u>http://support.avaya.com</u> as an HTML document.

Aiphone product documentation is available at https://www.aiphone.com.

[2] *Aiphone IX Door Stations Web Setting Manual*, Software version 6.00 or later, available from Aiphone.

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